FIG. 1

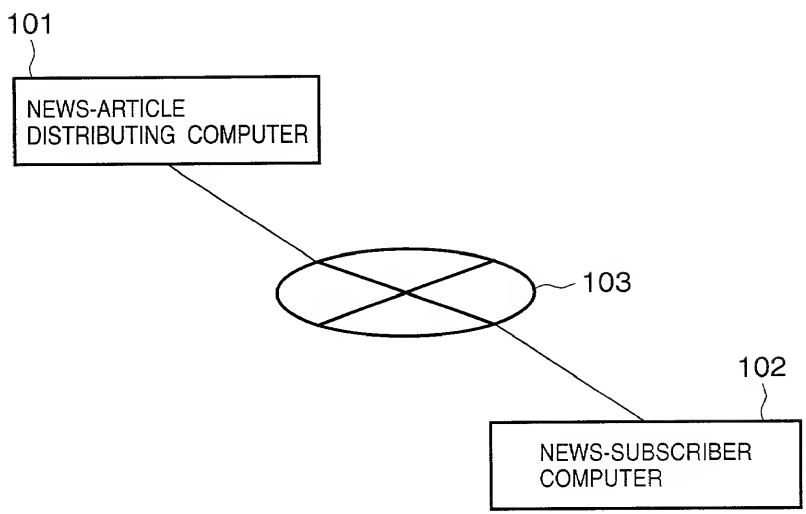

101
NEWS-ARTICLE DISTRIBUTING COMPUTER
103
102
NEWS-SUBSCRIBER COMPUTER

FIG. 2

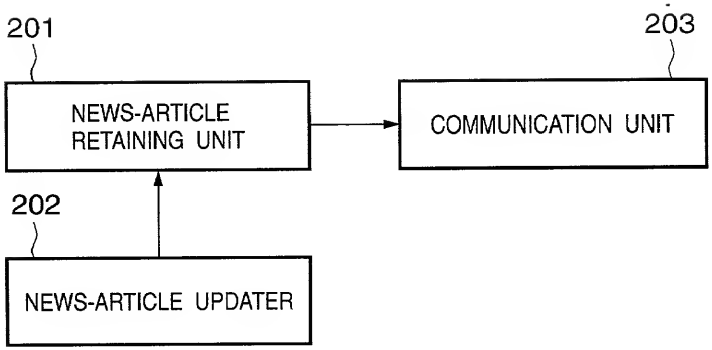

201
NEWS-ARTICLE RETAINING UNIT
203
COMMUNICATION UNIT
202
NEWS-ARTICLE UPDATER

FIG. 3

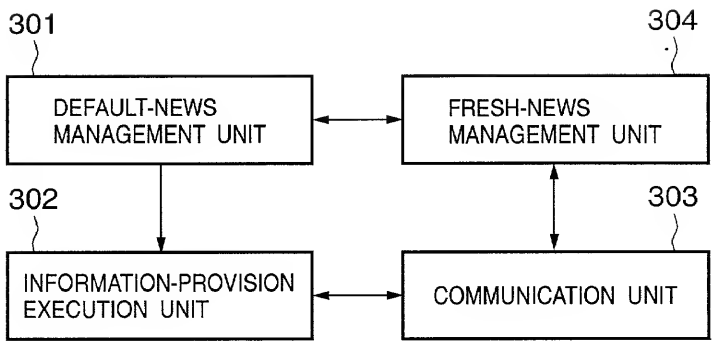

301
304
DEFAULT-NEWS MANAGEMENT UNIT
FRESH-NEWS MANAGEMENT UNIT
302
303
INFORMATION-PROVISION EXECUTION UNIT
COMMUNICATION UNIT

FIG. 4

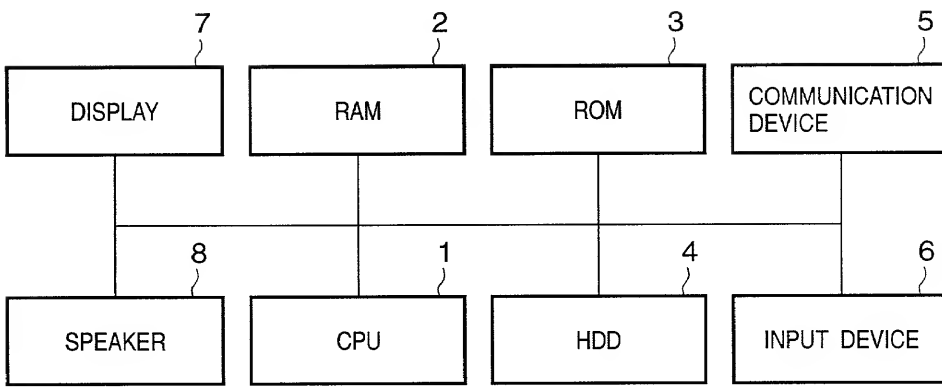

7
2
3
5
DISPLAY
RAM
ROM
COMMUNICATION DEVICE
8
1
4
6
SPEAKER
CPU
HDD
INPUT DEVICE

FIG. 5

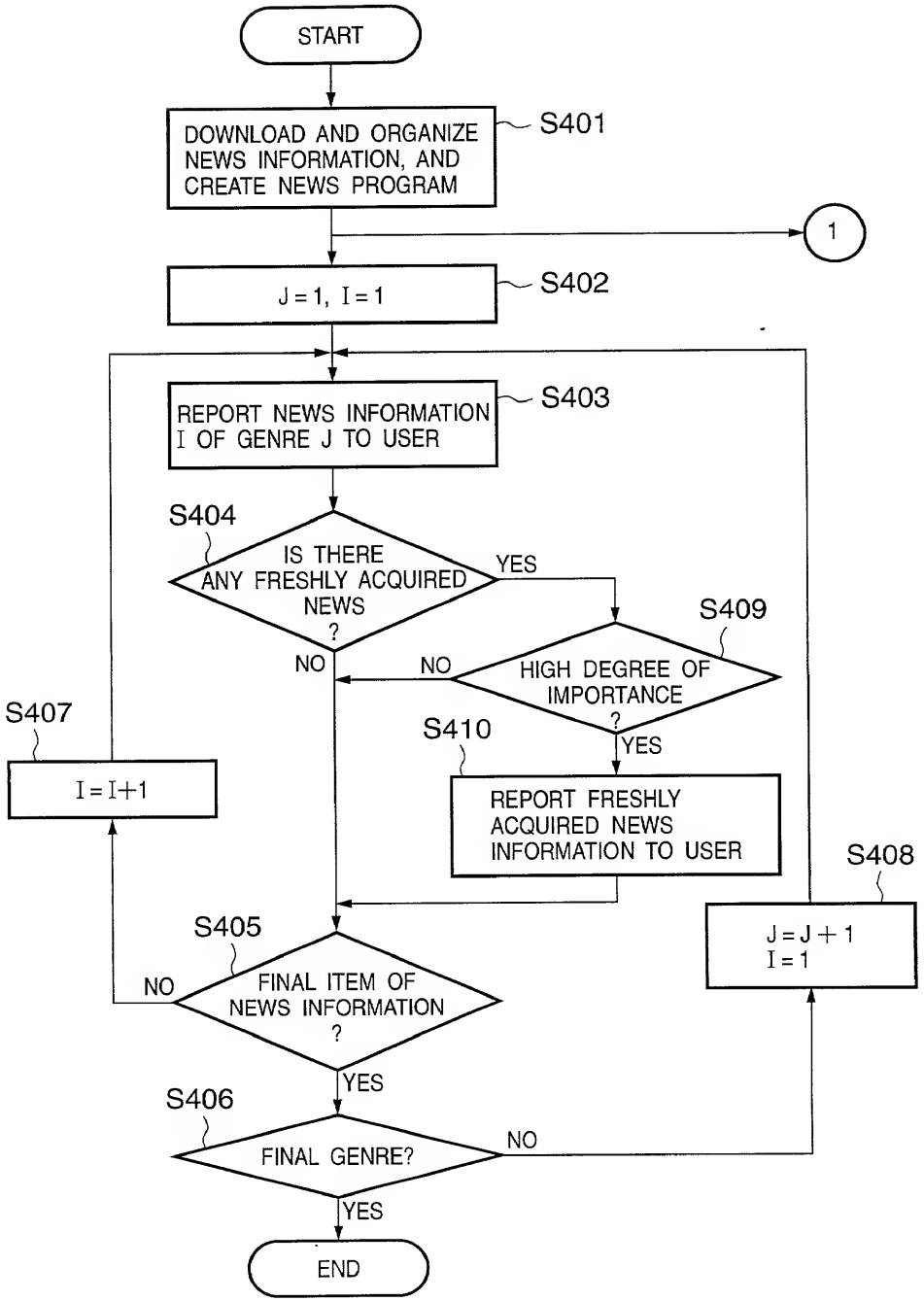

START
DOWNLOAD AND ORGANIZE NEWS INFORMATION, AND CREATE NEWS PROGRAM
S401
1
J = 1, I = 1
S402
REPORT NEWS INFORMATION I OF GENRE J TO USER
S403
S404
IS THERE ANY FRESHLY ACQUIRED NEWS ?
YES
NO
S409
HIGH DEGREE OF IMPORTANCE ?
NO
YES
S410
REPORT FRESHLY ACQUIRED NEWS INFORMATION TO USER
S407
I = I+1
S408
J = J + 1
I = 1
S405
FINAL ITEM OF NEWS INFORMATION ?
NO
YES
S406
FINAL GENRE?
NO
YES
END

FIG. 6

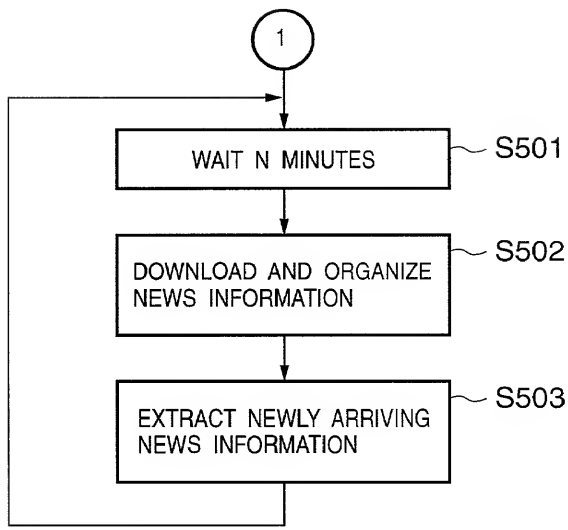

1
WAIT N MINUTES
S501
DOWNLOAD AND ORGANIZE NEWS INFORMATION
S502
EXTRACT NEWLY ARRIVING NEWS INFORMATION
S503

FIG. 7

GENRE NO.	GENRE NAME	CONTENT
1	POLITICS	HEADLINE : OPPOSITION PARTY REACTS TO PRIME MINISTER'S ANNOUNCEMENT OF TAX-REDUCTION POLICY TEXT : PRIME MINISTER ××× ANNOUNCED THAT A "SUBSTANTIAL TAX-CUT" WOULD BE PUT INTO FORCE NEXT YEAR...
		HEADLINE : SIGNS OF HIGHER VOTER TURNOUT FOR UPPER-HOUSE ELECTION TEXT : UNPRECEDENTED VOTER TURNOUT FOR THE CURRENT UPPER-HOUSE ELECTIO HAS BECOME THE FOCUS OF INTEREST...
		⋮
2	BUSINESS	HEADLINE : WHOLESALE PRICE INDEX UNCHANGED FROM LAST MONTH TEXT : THE WHOLESALE PRICE INDEX FOR JUNE ANNOUNCED ON THE 8TH BY THE BANK OF JAPAN...
		HEADLINE : YEN AT 139¥ LEVEL IN TOKYO TEXT : THE YEN QUOTE ON THE TOKYO FOREIGN EXCHANGE MARKET ON THE 8TH WAS 139¥/DOLLAR AT 5 : 00 PM...
		⋮
3	SPORTS	HEADLINE : FRANCE AND BRAZIL IN FINALS TEXT : THE SOCCER WORLD-CUP MEET IN FRANCE ON THE 8TH...
		HEADLINE : FINAL GAME OF JAPAN-US COLLEGE BASEBALL RAINED OUT TEXT : IN TUCSON, ARIZONA, IN THE AFTERNOON ON THE 8TH...
		⋮
4	WEATHER	AREA : NATIONWIDE WHEN : TONIGHT @@ TOMORROW @@ DAY AFTER TOMORROW WEATHER : SAPPORO @@ CLOUDY, INTERMITTENT RAIN @@ RAIN, LATER CLOUDY @@ RAIN, LATER PARTLY SUNNY WEATHER : SENDAI @@ CLOUDY @@ CLOUDY @@ CLOUDY WITH SUN AT TIMES WEATHER : NIIGATA @@ CLOUDY @@ RAIN @@ CLOUDY WITH RAIN AT TIMES WEATHER : TOKYO @@ FAIR, LATER CLOUDY @@ CLOUDY, LATER FAIR @@ CLOUDY...

FIG. 8

GENRE NO.	GENRE NAME	CONTENT
1	POLITICS	HEADLINE : OPPOSITION PARTY REACTS TO PRIME MINISTER'S ANNOUNCEMENT OF TAX-REDUCTION POLICY TEXT : PRIME MINISTER ××× ANNOUNCED THAT A "SUBSTANTIAL TAX-CUT" WOULD BE PUT INTO FORCE NEXT YEAR...
		HEADLINE : SIGNS OF HIGHER VOTER TURNOUT FOR UPPER-HOUSE ELECTION TEXT : UNPRECEDENTED VOTER TURNOUT FOR THE CURRENT UPPER-HOUSE ELECTIO HAS BECOME THE FOCUS OF INTEREST...
		⋮
2	BUSINESS	HEADLINE : WHOLESALE PRICE INDEX UNCHANGED FROM LAST MONTH TEXT : THE WHOLESALE PRICE INDEX FOR JUNE ANNOUNCED ON THE 8TH BY THE BANK OF JAPAN...
		HEADLINE : YEN AT 139¥ LEVEL IN TOKYO TEXT : THE YEN QUOTE ON THE TOKYO FOREIGN EXCHANGE MARKET ON THE 8TH WAS 139¥/DOLLAR AT 5 : 00 PM...
		⋮
3	SPORTS	HEADLINE : FRANCE AND BRAZIL IN FINALS TEXT : THE SOCCER WORLD-CUP MEET IN FRANCE ON THE 8TH...
		HEADLINE : MARK MCGWYER'S 25TH OF THE SEASON TEXT : IN THE AMERICAN LEAGUE, INFIELDER MARK MCGWYER OF THE CARDINALS...
		⋮
4	WEATHER	AREA : NATIONWIDE WHEN : TONIGHT @@ TOMORROW @@ DAY AFTER TOMORROW WEATHER : SAPPORO @@ CLOUDY, INTERMITTENT RAIN @@ RAIN, LATER CLOUDY @@ RAIN, LATER PARTLY SUNNY WEATHER : SENDAI @@ CLOUDY @@ CLOUDY @@ CLOUDY WITH SUN AT TIMES WEATHER : NIIGATA @@ CLOUDY @@ RAIN @@ CLOUDY WITH RAIN AT TIMES WEATHER : TOKYO @@ FAIR, LATER CLOUDY @@ CLOUDY, LATER FAIR @@ CLOUDY...

FIG. 9

GENRE NO.	GENRE NAME	CONTENT
3	SPORTS	HEADLINE : MARK M^{C}GWYER'S 25TH OF THE SEASON TEXT : IN THE AMERICAN LEAGUE, INFIELDER MARK M^{C}GWYER OF THE CARDINALS HIT A GRAND-SLAM HOME RUN, WHICH WAS HIS 25TH HOME RUN OF THE SEASON, IN THE 1ST INNING OF A GAME AGAINST THE YANKEES HELD IN ST. LOUIS ON THE 16TH. THIS IS THE FIRST TIME IN HISTORY THAT 25TH HOME RUNS HAVE BEEN HIT BY THE END OF MAY. THE MOST HOMERS HIT HERETOFORE WERE 24 BOTH BY KEN GRIFFEY AND M^{C}GWYER LAST YEAR. THE INFIELDER HAS NOW HIT NINE HOME RUNS IN HIS LAST SEVEN GAMES. AT THIS PACE HE WILL HIT 83 HOMERS THIS YEAR.

FIG. 10

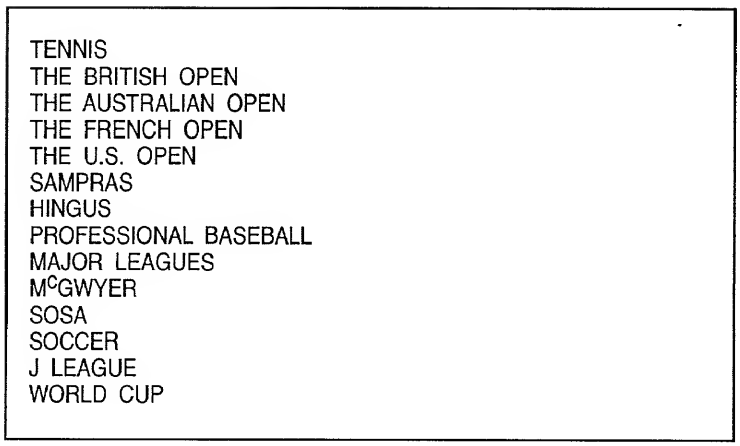

TENNIS
THE BRITISH OPEN
THE AUSTRALIAN OPEN
THE FRENCH OPEN
THE U.S. OPEN
SAMPRAS
HINGUS
PROFESSIONAL BASEBALL
MAJOR LEAGUES
McGWYER
SOSA
SOCCER
J LEAGUE
WORLD CUP

FIG. 11

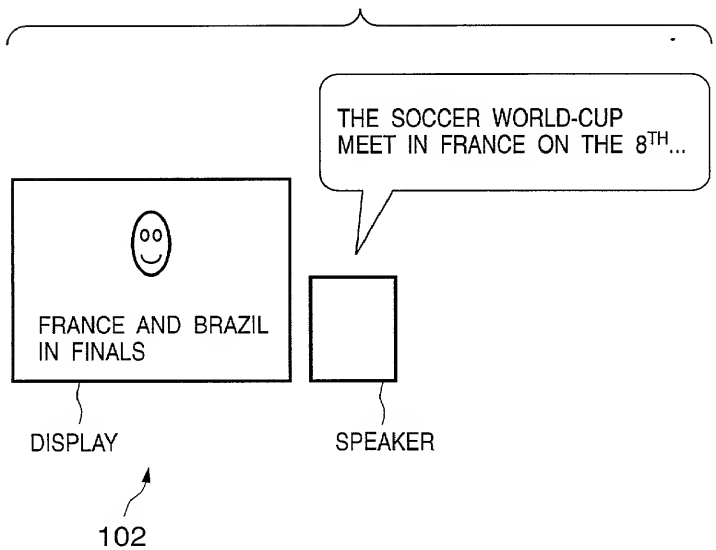

THE SOCCER WORLD-CUP MEET IN FRANCE ON THE 8TH...
FRANCE AND BRAZIL IN FINALS
DISPLAY
SPEAKER
102

FIG. 12

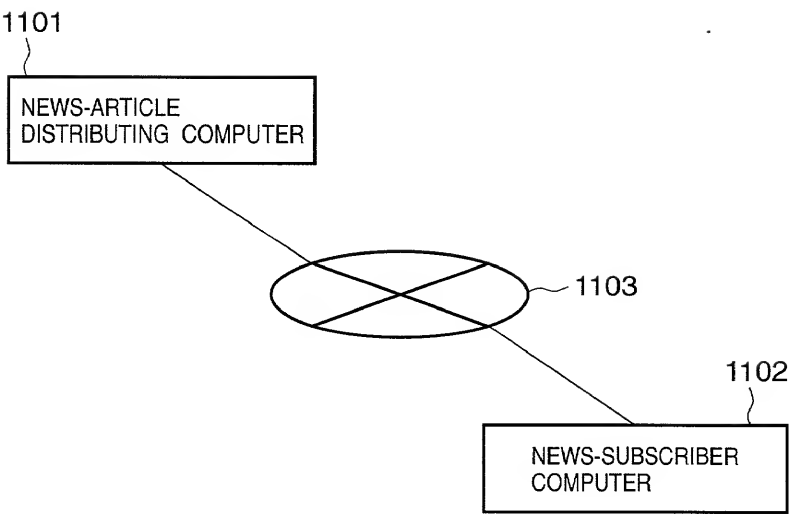

1101
NEWS-ARTICLE DISTRIBUTING COMPUTER
1103
1102
NEWS-SUBSCRIBER COMPUTER

FIG. 13

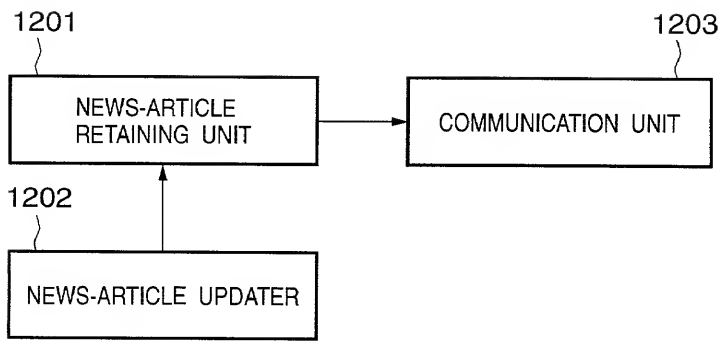

1201
NEWS-ARTICLE RETAINING UNIT
1203
COMMUNICATION UNIT
1202
NEWS-ARTICLE UPDATER

FIG. 14

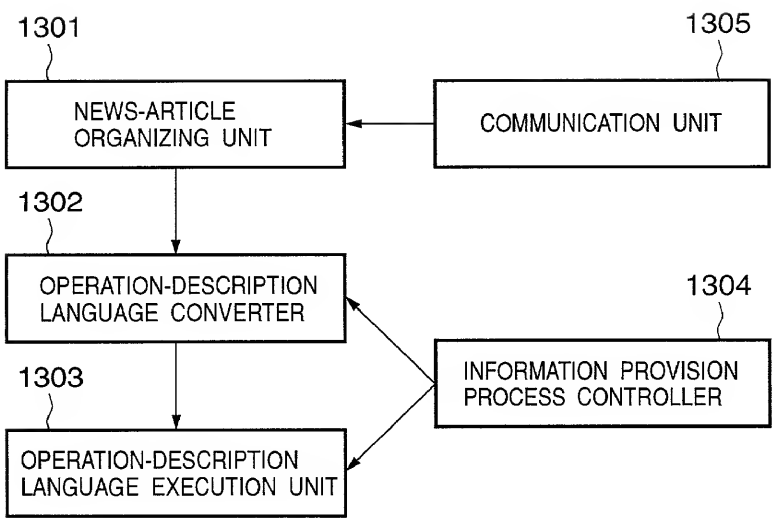

1301
NEWS-ARTICLE ORGANIZING UNIT
1305
COMMUNICATION UNIT
1302
OPERATION-DESCRIPTION LANGUAGE CONVERTER
1304
INFORMATION PROVISION PROCESS CONTROLLER
1303
OPERATION-DESCRIPTION LANGUAGE EXECUTION UNIT

FIG. 15

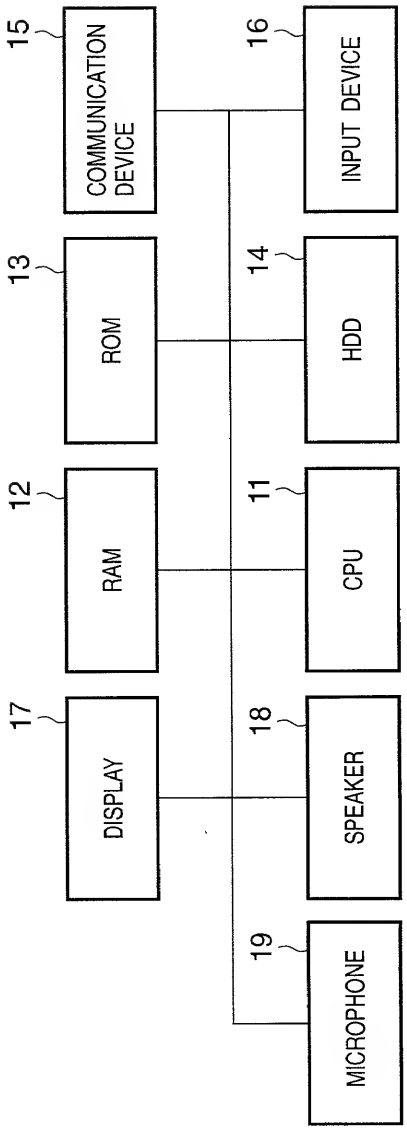

15
COMMUNICATION DEVICE
16
INPUT DEVICE
13
ROM
14
HDD
12
RAM
11
CPU
17
DISPLAY
18
SPEAKER
19
MICROPHONE

FIG. 16

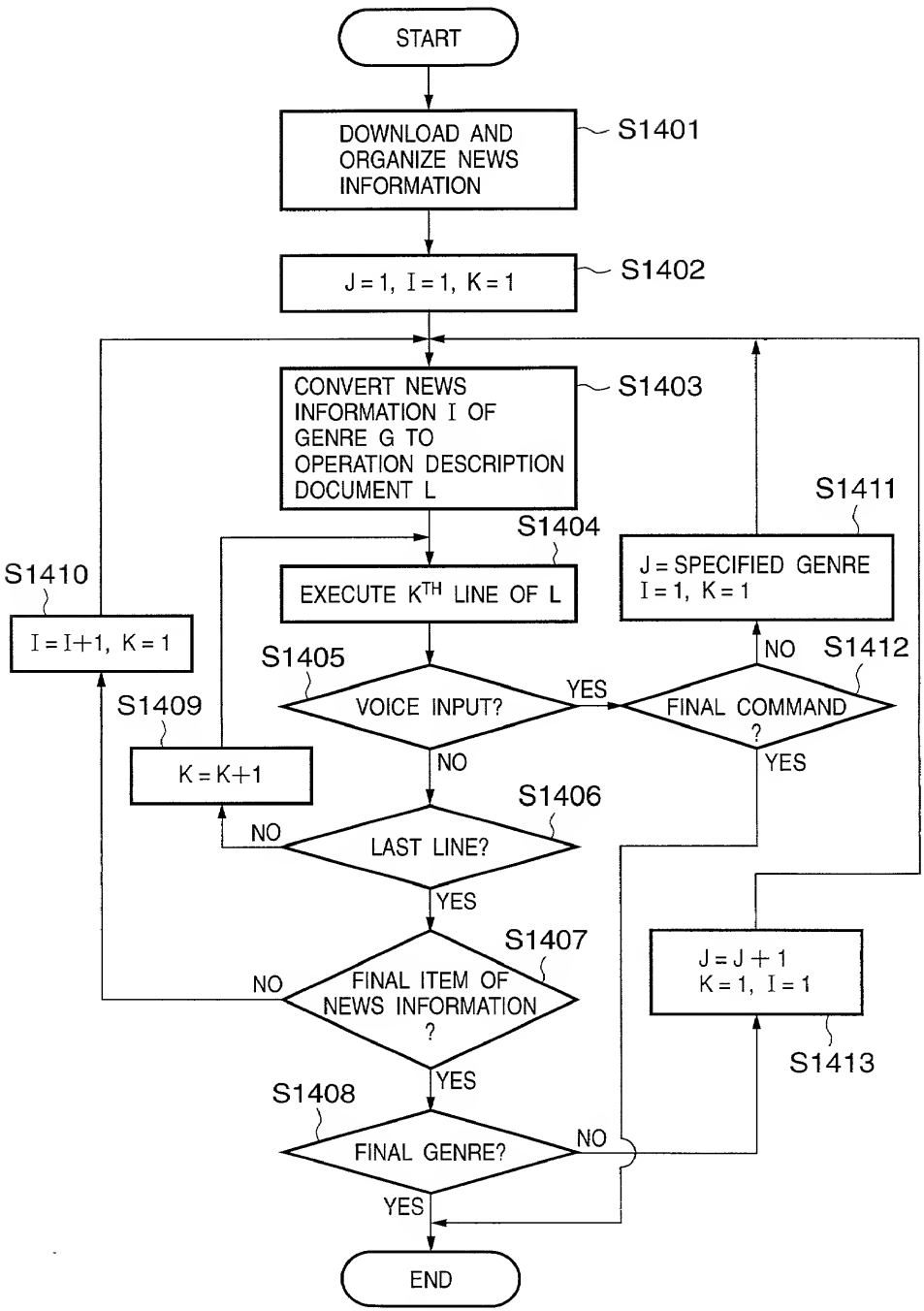

START
DOWNLOAD AND ORGANIZE NEWS INFORMATION
S1401
J = 1, I = 1, K = 1
S1402
CONVERT NEWS INFORMATION I OF GENRE G TO OPERATION DESCRIPTION DOCUMENT L
S1403
S1404
EXECUTE K^TH LINE OF L
S1405
VOICE INPUT?
YES
NO
S1406
LAST LINE?
NO
YES
S1407
FINAL ITEM OF NEWS INFORMATION ?
NO
YES
S1408
FINAL GENRE?
NO
YES
END
S1409
K = K+1
S1410
I = I+1, K = 1
S1411
J = SPECIFIED GENRE I = 1, K = 1
S1412
FINAL COMMAND ?
NO
YES
S1413
J = J + 1 K = 1, I = 1

FIG. 17

GENRE NO.	GENRE NAME	CONTENT
1	POLITICS	HEADLINE : OPPOSITION PARTY REACTS TO PRIME MINISTER'S ANNOUNCEMENT OF TAX-REDUCTION POLICY TEXT : PRIME MINISTER ××× ANNOUNCED THAT A "SUBSTANTIAL TAX-CUT" WOULD BE PUT INTO FORCE NEXT YEAR...
		HEADLINE : SIGNS OF HIGHER VOTER TURNOUT FOR UPPER-HOUSE ELECTION TEXT : UNPRECEDENTED VOTER TURNOUT FOR THE CURRENT UPPER-HOUSE ELECTIO HAS BECOME THE FOCUS OF INTEREST...
		⋮
2	BUSINESS	HEADLINE : WHOLESALE PRICE INDEX UNCHANGED FROM LAST MONTH TEXT : THE WHOLESALE PRICE INDEX FOR JUNE ANNOUNCED ON THE 8TH BY THE BANK OF JAPAN...
		HEADLINE : YEN AT 139¥ LEVEL IN TOKYO TEXT : THE YEN QUOTE ON THE TOKYO FOREIGN EXCHANGE MARKET ON THE 8TH WAS 139¥/DOLLAR AT 5 : 00 PM...
		⋮
3	SPORTS	HEADLINE : FRANCE AND BRAZIL IN FINALS TEXT : THE SOCCER WORLD-CUP MEET IN FRANCE ON THE 8TH...
		HEADLINE : FINAL GAME OF JAPAN-US COLLEGE BASEBALL RAINED OUT TEXT : IN TUCSON, ARIZONA, IN THE AFTERNOON ON THE 8TH...
		⋮
4	WEATHER	AREA : NATIONWIDE WHEN : TONIGHT @@ TOMORROW @@ DAY AFTER TOMORROW WEATHER : SAPPORO @@ CLOUDY, INTERMITTENT RAIN @@ RAIN, LATER CLOUDY @@ RAIN, LATER PARTLY SUNNY WEATHER : SENDAI @@ CLOUDY @@ CLOUDY @@ CLOUDY WITH SUN AT TIMES WEATHER : NIIGATA @@ CLOUDY @@ RAIN @@ CLOUDY WITH RAIN AT TIMES WEATHER : TOKYO @@ FAIR, LATER CLOUDY @@ CLOUDY, LATER FAIR @@ CLOUDY...

FIG. 18

```
< caster >
name = mainCaster
file = mainCaster.agt
< /caster >

< caster >
name = WeatherCaster
file = WeatherCaster.agt
< /caster >

< caster >
name = WeatherCaster
file = WeatherCaster.agt
< /caster >
```

FIG. 19

```
< image >
name = Default
file = Default.bmp
< /image >

< image >
name = Weather
file = Weather.bmp
< /image >
```

FIG. 20

```
< newsgenre >
name = POLITICS
Caster = mainCaster
image = Default
< /newsgenre >

< newsgenre >
name = BUSINESS
Caster = mainCaster
image = Default
< /newsgenre >

< newsgenre >
name = SPORTS
Caster = SportsCaster
image = Default
< /newsgenre >

< newsgenre >
name = WEATHER
Caster = WeatherCaster
image = Weather
< /newsgenre >
```

FIG. 21

```
< schedule >
POLITICS
BUSINESS
SPORTS
WEATHER
< /schedule >
```

FIG. 22

```
< recognize >
1 : POLITICS
2 : BUSINESS
3 : SPORTS
4 : WEATHER
5 : THANK YOU
< /recognize >

< reaction >
1 : genre change : POLITICS
2 : genre change : BUSINESS
3 : genre change : SPORTS
4 : genre change : WEATHER
5 : end
< /reaction >
```

FIG. 23

```
Caster — > Show(mainCaster)
BackgroundImage — > Display(Default)
FrontText — > Display(OPPOSITION PARTY REACTS TO PRIME MINISTER'S
                      ANNOUNCEMENT OF TAX-REDUCTION POLICY)
Caster — > Speak(PRIME MINISTER ——— ANNOUNCED THAT A
                 "SUBSTANTIAL TAX-CUT" WOULD BE PUT INTO
                 FORCE NEXT YEAR...)
. . . .

. . . .

FrontText — > Display(SIGNS OF HIGHER VOTER TURNOUT FOR
                      UPPER-HOUSE ELECTION)
Caster — > Speak (UNPRECEDENTED VOTER TURNOUT FOR THE CURRENT
                  UPPER-HOUSE ELECTION HAS BECOME THE FOCUS
                  OF INTEREST...)
```

FIG. 24

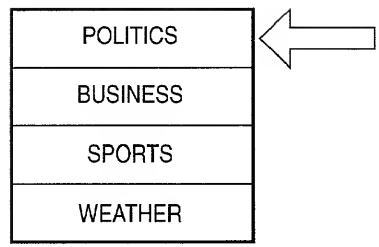


FIG. 25

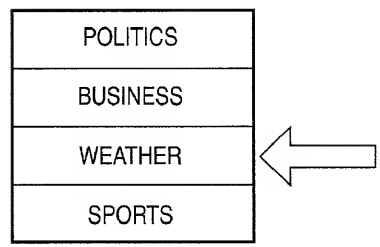


FIG. 26

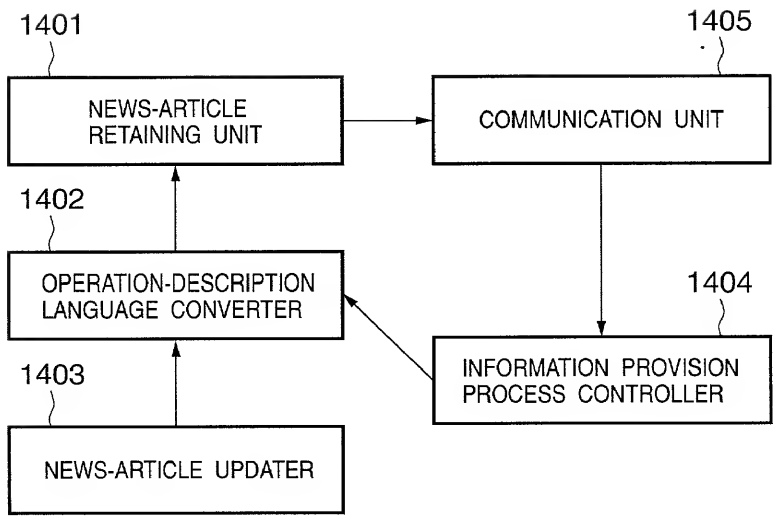

1401
NEWS-ARTICLE RETAINING UNIT
1405
COMMUNICATION UNIT
1402
OPERATION-DESCRIPTION LANGUAGE CONVERTER
1404
INFORMATION PROVISION PROCESS CONTROLLER
1403
NEWS-ARTICLE UPDATER

FIG. 27

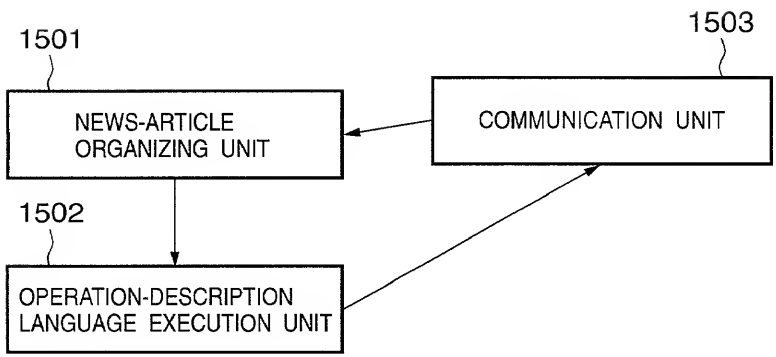
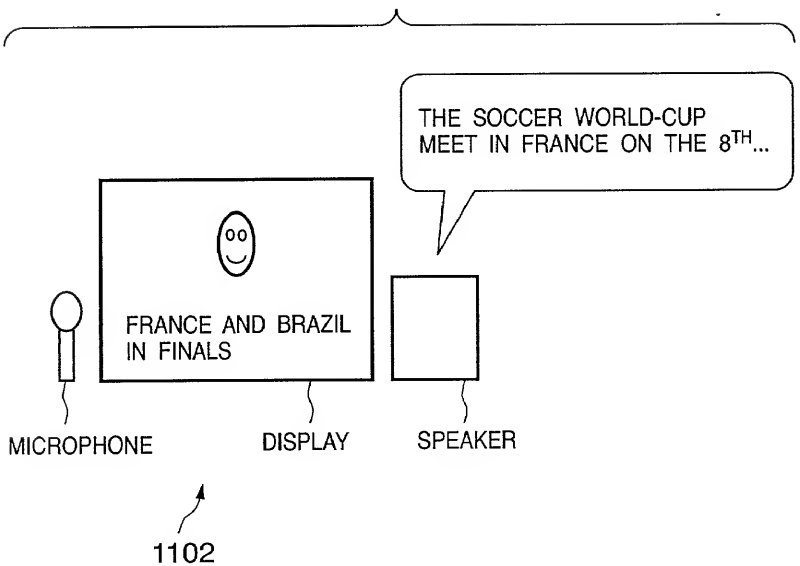

1501
NEWS-ARTICLE ORGANIZING UNIT
1503
COMMUNICATION UNIT
1502
OPERATION-DESCRIPTION LANGUAGE EXECUTION UNIT

FIG. 28


THE SOCCER WORLD-CUP MEET IN FRANCE ON THE 8TH...
FRANCE AND BRAZIL IN FINALS
MICROPHONE
DISPLAY
SPEAKER
1102